

ABSTRACT

An object of the present invention is to provide an exhaust gas recirculation device with an improved response speed and accuracy of exhaust-gas recirculation flow control in an internal combustion engine.

A recirculation gas control valve (16) controls a recirculation flow rate in exhaust gas recirculation passages (13a, 13b) of an internal combustion engine (7). An intake air control valve (5) controls a flow rate in an intake passage (4) of the internal combustion engine (7). An intake air flow sensor (2) detects a flow rate in the intake passage (4). A recirculation flow sensor (15) detects an exhaust-gas recirculation flow rate in the exhaust gas recirculation passage (13). An exhaust gas recirculation controller 20 performs feedback control of the intake air control valve (5) and/or the recirculation gas control valve (16) so that an exhaust gas recirculation ratio obtained based on outputs of the intake air flow sensor (2) and the recirculation flow sensor (15) is a target recirculation ratio.